



United States  
Department of  
Agriculture

Agricultural  
Research  
Service

Animal  
Improvement  
Programs  
Laboratory

Bldg. 263, BARC-East  
Beltsville, Maryland 20705-2350  
Phone: (301) 504-8334  
FAX: (301) 504-8092  
E-mail: rlaipl@ggpl.arsusda.gov

August 13, 1996

SUBJECT: Revision of Format for Cow Evaluation Record

TO: Recipients of Cow Evaluation Data on Magnetic Media

FROM: H.D. Norman, Research Leader, AIPL

*H. Duane Norman*

Beginning with February 1997 evaluations, format 105N will be used to distribute all cow evaluation data on magnetic media or via electronic transfer. The enclosed copy of this format describes a new layout for the cow evaluation record. This major change in the format is necessary for several reasons. The new format was developed to incorporate the two new traits somatic cell score (SCS) and productive life (PL) and to allow for international identification (ID). It permits reporting of the sum of lactation weights, which will be used by some artificial-insemination (AI) organizations in their progeny-test programs. The new format also includes the average standardized values for PL and SCS. Considerable reduction in record length was achieved by eliminating fields that relate to an evaluation used for relatives. The date fields have been extended to include the century as part of the date.

International ID will include a 2-byte breed code, a 3-byte country code, and a 12-byte ID number. Full implementation of international ID is planned for January 1998. In the interim, the breed and country codes and the ID number will be coded as follows:

- The current 1-byte breed code will be stored in the left half of the 2-byte breed code field with a blank in the right half.
- The country code will consist of either "USA" for the United States or "CAN" for Canada.
- The current 9-byte ID will be stored in the right 9 bytes of the 12-byte field with 0's filled to the left. For Canadian animals, the 04 prefix will continue to be used until international ID's are fully implemented.

The data fields have been organized to allow receipt of shorter records if not all data are required (byte position 112 describes how this feature is implemented). The option to receive the data file with shorter record lengths permits faster electronic file transfer, prevents the need to maintain multiple formats, and addresses cooperator needs as electronic transfer becomes a reality.

The 10% file, which currently contains both cow evaluation and name-and-address records, will no longer include the name-and-address records. A file of herd-owner names and addresses (modified format 385) will be made available electronically. This file will be compressed and protected with a unique password. The current name-and-address record (385A2) will be redesigned to utilize previously unused space within a month.

The enclosed version of format 105N includes a few minor modifications made since the proposed format was distributed at the 39th Annual DRPC Workshop in Raleigh, North Carolina, in April 1996. The table on the reverse side documents field changes from format 105A1. Please review the format using the table and direct any comments or concerns to me by **August 23, 1996**. Also, please contact Leigh Walton or me by electronic mail (rlaipl@ggpl.arsusda.gov) or FAX (301-504-8092) to indicate the record length that you would prefer for each file type that you receive (see options in description for byte position 112).

Enclosure

### Differences Between Formats 105A1 and 105N (Cow Evaluation Record)

Fields removed	105A1 byte position	Fields added	Byte position	Fields redefined	Byte position	Redefinition
Species code	1	Country code (animal)	3-5	Breed code of animal		
Date of evaluation	38-41	Country code (sire)	20-22	105A1	2	Change from 1- to 2-byte
Base year	50-51	Country code (dam)	37-39	105N	1-2	breed code
Age at last calving	74-76	Country code (previous ID of animal)	54-56	ID number of animal		
IHF code	88	Registry status	78-79	105A1	3-11	Change field length to accom-
Record code	106	Record length code	112	105N	6-17	modate international ID
Version code	107	Sum of lactation weights	116-118	Breed code of sire		
Avg. standardized fat %.	130-131	Reliability of MFP\$	121-122	105A1	12	Change from 1- to 2-byte
Milk-fat \$	186-189	Age weight for cow's PL record	195-197	105N	18-19	breed code
# of lact. recs for EUFR	190	Cow's months in milk (PL or projected PL)	232-234	ID number of sire		
Avg. std. milk for EUFR	191-195	Average std. SCS	235-237	105A1	13-21	Change field length to accom-
Avg. std. fat % for EUFR	196-197	REL of PA MFP\$	280-281	105N	23-24	modate international ID
Avg. std. fat for EUFR	198-201	REL of EUFR MFP\$	299-300	Breed code of dam		
Avg. # of lact. in management groups for EUFR	202-204			105A1	22	Change from 1- to 2-byte
Yield dev. milk for EUFR	205-210			105N	35-36	breed code
Yield dev. fat for EUFR	211-215			ID number of dam		
PPA milk for EUFR	216-221			105A1	23-31	Change field length to accom-
PPA fat for EUFR	222-225			105N	40-51	modate international ID
Avg. std. prot. %	282-283			Breed code for previous ID of animal		
Cheese-yield \$	332-335			105A1	91	Change from 1- to 2-byte
# of lact. for EUFR (prot. subset)	336			105N	52-53	breed code
Avg. std. milk for EUFR (prot. subset)	337-341			ID number of previous ID of animal		
Avg. std. prot. % for EUFR (prot. subset)	342-343			105A1	92-100	Change field length to accom-
Avg. std. prot. for EUFR (prot. subset)	344-347			105N	40-51	modate international ID
Avg. # of lact. in management groups for EUFR (prot. subset)	348-350			Birth date of animal		
Yield dev. milk for EUFR (prot. subset)	351-356			105A1	32-37	Changed to accommodate the
Yield dev. prot. for EUFR (prot. subset)	357-361			105N	57-68	next millennium
PPA prot. for EUFR (prot. subset)	363-366			Last herd code		
				105A1	52-59	Redefined as last herd code of
				105N	87-94	last lactation
				Last calving date		
				105A1	68-73	Changed to accommodate the
				105N	95-102	next millennium